Notes of Tutorial 10:

Defining a custom 404| Page using the new app router.  
In next.js , when you navigate to a route that is not defined in the app folder next, renders a default 404|Not Found Page.

Nextjs programmatically render the page based on a certain condition, we can use Not Found Function.

Notes of Tutorial 11:

File Colocation:

Nextjs remains flexible regarding how you structure project files and folder.

Nextjs provides file system based router where each folder represents a route segment mapped to a corresponding segment in URL path.

However, it is important to know that a route isn’t publicly accessible until a page.tsx file is added to respective route segment.

Notes of Tutorial 12:

Indicates that it is a private implementation detail and should not be considered by routing system.

Private folders and its subfolders are excluded from routing.

To make a folder private we can use “\_folderName” or “%5folderName”

Notes of Tutorial 13:

Routes Groups:

Helps us organize our projects

We can logically group our routes and project file without affecting the URL path structure.

Notes of Tutorial 14:

Layouts:

A page is a UI that is unique to a route.

A layout is UI that is shared between multiple pages in the app.

You can define a layout by default exporting a react component from a layout.tsx.

Notes of Tutorial 15:

Nested Layouts:

Each app folder has a mandatory root layout which is the topmost layout that specifically can create a layout.tsx, this is render first which includes the children prop.

If a children prop is created in another folder then the children prop in root layout gets replaced.

This feature of next.js allows to create layouts separately for any folder.

Notes of Tutorial 16:

Route Group Layout:

It is used to organize your project in a manner that doesn’t affect the URL.

It is also used to selectively apply a layout to certain segments while leaving other unchanged.

Notes of Tutorial 17:

Routing Materials:

Ensuring proper search engine optimization is crucial for increasing visibility and attracting users.

Nextjs introduced the metadata API which allows you to define metadata for each page.

Metadata ensures accurate & relevant information is displayed when your pages are shared or indexed.

Routing metadata leverages the metadata API to enhance routing.

Key Points:

Routing is the process of determining how requests are handled in an application. It defines how URLs map to specific handlers, controllers, or components.

Metadata provides additional information about a webpage or resource, typically in the form of **meta tags** (for web pages) or **annotations** (in programming).